



# WHEEL OF FORTUNE

Is *Wheel of Fortune* rigged?

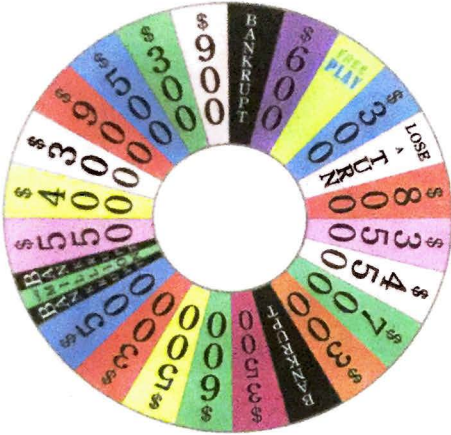
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Tiers B/C

## Act One: Wheel...

- 1 In the game show *Wheel of Fortune*, contestants spin a wheel to determine how much money they'll win. To the nearest percent, how often do you expect the wheel to land on each of the following amounts?



Amount	\$300	\$350	\$400	\$450	\$500
Pieces					
Percent					
Amount	\$550	\$600	\$700	\$800	\$900
Pieces					
Percent					
Amount	\$3500	\$1 million	Free Play	Lose Turn	BANKRUPT
Pieces					
Percent					

- 2 Pick one of the percents above and explain what it means within the context of *Wheel of Fortune*.
- 3 If you watched an episode of *Wheel of Fortune*, what would need to happen for you to be suspicious that the show was rigged? Explain.

## Act Two: Wheel of Fortune

5. On the first page, you figured out the theoretical probability of getting each outcome on the Wheel of Fortune. Now you will be watching the episode (you have been given the link) and recording the experimental probability. While watching this episode, be sure to change the speed to 0.5 and record the results of the spins on the chart below. Put tally marks in the chart below each time the amount is spun. Some of the spins land on bonuses, which are cards on top of one of these amounts, so look carefully! After the game is finished, compute the percentages of each amount.

\$300	\$350	\$400	\$450
Percent:	Percent:	Percent:	Percent:
\$500	\$550	\$600	\$700
Percent:	Percent:	Percent:	Percent:
\$800	\$900	\$3,500	\$1 million
Percent:	Percent:	Percent:	Percent:
Free Play	Lose a Turn	Bankrupt	Total Spins 27
Percent:	Percent:	Percent:	

6. Compare the theoretical and experimental probability of spinning \$500 on the wheel.

7. Compare the theoretical and experimental probability of spinning "bankrupt" on the wheel.

8. Based on your results, do you think the game show, Wheel of Fortune, is rigged? Why or why not?